

Appl. No. 10/050,476
Amtd.AF. dated August 25, 2005
Reply to Final Office Action of June 30, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Previously Presented) A medical device comprising:
a metallic tubular member;
a polymeric tubular member disposed over at least a portion of the metallic tubular member forming a lap joint; and
a coupling agent comprising a functionalized titanate disposed between the metallic tubular member and the polymeric tubular member within the lap joint.
2. (Original) The medical device of claim 1, wherein the medical device is a catheter.
3. (Original) The medical device of claim 1, wherein the metallic tubular member is a hypotube.
4. (Original) The medical device of claim 1, wherein the polymeric tubular member is disposed onto the outside of the metallic tubular member.
5. (Original) The medical device of claim 1, wherein the polymeric tubular member is disposed onto the inside of the metallic tubular member.
6. (Original) The medical device of claim 1, wherein the coupling agent is a liquid.
7. (Original) The medical device of claim 1, wherein the coupling agent is a paste.
8. (Original) The medical device of claim 1, wherein the coupling agent is a powder.
9. (Canceled)

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10. (Previously Presented) The medical device of claim 1, wherein the functionalized titanate is neopentyl(diallyl)oxy,tri(dioctyl)pyro-phosphato titanate.

11. (Previously Presented) The medical device of claim 1, wherein the functionalized titanate is neopentyl(diallyl)oxy,tri(N-ethylenediamino)ethyl titanate.

12. (Previously Presented) The medical device of claim 1, wherein the functionalized titanate is neopentyl(diallyl)oxy,tri(m-amino)phenyl titanate.

13-15. (Canceled)

16. (Currently Amended) In a catheter having a lap joint between a metallic tubular member and a polymeric tubular member, the improvement in the catheter comprising:

a coupling agent, wherein the coupling agent is disposed between the metallic tubular member and the polymeric tubular member in the lap joint, the coupling agent having a first functional group and second functional group, the first functional group providing bonding adhesion to the metallic tubular member, the second functional group providing bonding adhesion to the polymeric tubular member, wherein the coupling agent maintains bonding adhesion between the metallic tubular member and the polymeric tubular member when in use,
wherein the coupling agent is a functionalized titanate.

17. (Original) The improvement of claim 16, wherein the first functional group of the coupling agent comprises at least one hydrolyzable functional group.

18. (Withdrawn) The improvement of claim 17, wherein the second functional group of the coupling agent comprises at least one (meth)acrylate monomer.

19. (Withdrawn) The improvement of claim 16, wherein the second functional group of the coupling agent comprises of at least one amine monomer.

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20. (Canceled)

21. (Currently Amended) The improvement of claim 16 [[20]], wherein the functionalized titanate is neopentyl(diallyl)oxy,tri(dioctyl)pyro-phosphato titanate.

22. (Currently Amended) The improvement of claim 16 [[20]], wherein the functionalized titanate is neopentyl(diallyl)oxy,tri(N-ethylenediamino)ethyl titanate.

23. (Currently Amended) The improvement of claim 16 [[20]], wherein the functionalized titanate is neopentyl(diallyl)oxy,tri(m-amino)phenyl titanate.

24-32. (Canceled)